

Directory: C:\Users\Mike\AppData\Local\Temp

Appendix 2 Semi-Permanent Noise Measurements cont.

Location P1

File: Land r/o Crescent Parade

\Norsonic\Downloaded Measurements

File version v1.0/6.0.0.4

Date\171101

Duration Observation

NOR140_FILE_171102_0001.NBF	(2017/11/02 00:02:48.00)	(1:0:0.0)	
NOR140_FILE_171102_0002.NBF	(2017/11/02 01:02:54.00)	(1:0:0.0)	
NOR140_FILE_171102_0003.NBF	(2017/11/02 02:02:59.00)	(1:0:0.0)	
NOR140_FILE_171102_0004.NBF	(2017/11/02 03:03:04.00)	(1:0:0.0)	
NOR140_FILE_171102_0005.NBF	(2017/11/02 04:03:10.00)	(1:0:0.0)	
NOR140_FILE_171102_0006.NBF	(2017/11/02 05:03:15.00)	(1:0:0.0)	
NOR140_FILE_171102_0007.NBF	(2017/11/02 06:03:21.00)	(1:0:0.0)	
NOR140_FILE_171102_0008.NBF	(2017/11/02 07:03:26.00)	(1:0:0.0)	Yard opens 07.30
NOR140_FILE_171102_0009.NBF	(2017/11/02 08:03:31.00)	(1:0:0.0)	Yard activity
NOR140_FILE_171102_0010.NBF	(2017/11/02 09:03:37.00)	(1:0:0.0)	Yard activity
NOR140_FILE_171102_0011.NBF	(2017/11/02 10:03:42.00)	(1:0:0.0)	Yard activity
NOR140_FILE_171102_0012.NBF	(2017/11/02 11:03:48.00)	(1:0:0.0)	Yard activity
NOR140_FILE_171102_0013.NBF	(2017/11/02 12:03:53.00)	(1:0:0.0)	Yard activity
NOR140_FILE_171102_0014.NBF	(2017/11/02 13:03:58.00)	(1:0:0.0)	Yard activity
NOR140_FILE_171102_0015.NBF	(2017/11/02 14:04:04.00)	(0:0:1.0)	

LAeq	LAFmax	LAE	LApeak	LAF,Perc2	LAF,Perc3	LAF,Perc4	LAF,Perc5	LAF,Perc6	Lfeq		
						LA10		LA90	6.3 Hz	8.0 Hz	
49.9	70.2	85.5	82.7	58.1	54.8	53	46.8	42.9	44.6	43.9	
48.4	73.7	83.9	86	57.1	53.2	51	44.8	41.8	42.6	42.2	
46.7	63	82.3	76.4	55.5	51.3	49.2	44.5	41.8	38.1	39.5	
47.4	75.6	82.9	85.1	56.5	52.1	49.6	43.8	41.1	38.5	39.5	
49	62.5	84.5	75.4	57.5	54.2	52.3	46.4	42.8	39.9	40.1	
52.6	68.4	88.2	81.4	59.1	57.1	55.9	51.1	46.6	42.1	43.2	
57.1	72.2	92.6	85.7	64.9	60.1	58.9	56	52.9	45.1	45.8	
64.4	90.7	100	109.9	73.3	66.9	65.3	58.6	55.3	51.6	50.6	
62.1	91.8	97.6	110.7	71.4	66.9	64	57.6	54.9	51.1	50.4	
61.7	90.3	97.3	106.1	71.3	63.9	61.5	57.3	55.1	55.2	54.1	
63.8	89.1	99.4	102.1	74.5	68.9	66.1	58.2	53.9	53	52.5	
63.5	88	99.1	104.1	73.4	68.3	66.1	57.7	53.5	53.5	52.6	
63.6	89.6	99.1	109.4	74.3	68.7	65.8	58.4	53.3	51.6	51.1	
63.0	85.3	98.6	100.4	75.1	69.1	64.7	56.2	52	49.2	49.6	
56.6	57.2	59.2	68.1	-	-	57.1	56.6	56.1	46.3	51.2	

LAeq,8-hour night time 07.00-23.00

66

57 free-field

LAeq,16-hour daytime 07.00-23.00

73.0

61 free-field

59.4

62.1

63.2

61.4

63.4

55

55.9

55

56.7

54

53.2

51.5

LA10,18-hour

65.3

64

61.5

66.1

66.1

65.8

62.7

63.4

65.6

64.5

63.1

56.5

57

56.8

58.7

56.1

56

54.7

61

10 Hz	12.5 Hz	16 Hz	20 Hz	25 Hz	31.5 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz
47.2	47.9	48.7	48.2	48.3	45.5	46.6	46.4	46.1	43.8	42.6	43.5	43	40.9
44.4	45.8	45.7	47.1	45.9	43.5	45.2	45.4	45	43.1	42	42.3	41.6	39.8
42	45.7	46.6	47.2	46.2	44.2	44.2	45.2	43.8	42.6	41.1	41.6	40.2	39.9
41.7	44	44.1	44.8	44.8	44.1	44.4	47.3	44.1	42.2	41.5	40.9	41.1	39.2
43.6	45.5	45.8	47.7	48.9	46.4	47.8	47.4	44.9	43.5	42.6	41.7	40.3	41.3
47.5	49.7	50.6	50.2	51.5	49.3	49.4	50.5	50.2	49.9	47	45.9	44.5	44.7
49.8	52.3	53.8	53.5	56.1	58	62.7	56.7	55.2	53.3	52.8	51.2	49.6	48.8
51.6	53.8	55.8	57.4	69.1	74.3	74.6	65.2	62.1	61.6	60.8	57.3	57.2	55.2
51.3	53.3	56	56.4	64.8	64.4	68.4	61.4	60.4	61.7	64.6	56.8	56.3	54.7
54	54.7	56.6	55.6	63.6	63.3	61	60.7	57.8	57.3	55.8	53.9	54.5	54.5
53.6	56.5	58.5	57.2	64.1	66.5	66	63.9	61.6	62.2	66.9	57.6	57.7	57.7
52.9	54.7	57.7	57.3	66	66.8	66.1	63.4	62.1	63	66.4	57.9	57.6	55.9
52	54.9	57.3	56.7	62.8	66.7	62.9	62.8	60.5	58.3	60.6	54.5	54.7	53.2
51.2	53.3	55.5	55.4	61.9	62.2	64.3	62	59.1	62.1	65.3	54.5	57.1	56.8
54.3	54	50.5	54.6	55.3	52.8	54	56.6	53.5	51.1	46.1	46.5	45.6	46.3

250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1.0 kHz	1.25 kHz	1.6 kHz	2.0 kHz	2.5 kHz	3.15 kHz
41.3	40.9	39.4	40	40.8	42.7	42.7	41	40.6	36.8	33.4	32.1
41.1	41.5	40.7	40.8	40.8	41.1	40.8	38.9	37	34.2	30.5	27.7
39.6	39.9	38.7	39.4	39.6	40	39.2	36.9	34.5	31.6	28.2	25.2
38.5	39.7	38.9	39.1	39.1	40.9	40.3	37.8	35.9	33.2	29.5	26.1
40.6	41	39.6	39.9	40.5	42.1	41.9	40.1	38.4	35.5	31.4	27.7
44.9	44	42.9	43.2	44.1	45.9	45.6	43.7	42.1	39.3	35.3	31.8
48.7	49.5	47.8	47.7	48.6	50.1	49.6	47.9	46.1	44.1	41	38
54.2	53.4	52.9	53.3	53.1	52.8	53.1	58.4	57.7	49.1	47.4	45.1
53.9	54.5	53.5	52.6	52.4	52.6	52.5	51.2	53.1	49.4	48.8	48.1
52.8	52.7	52.5	52.6	52.5	52.4	51.6	52.6	54.4	48	46.1	44.8
56	55.2	55.6	56.6	55.6	54.7	54.3	54.1	52.5	50.5	49.7	49.5
56	56.6	54.7	55.4	54.3	53.9	54.6	54.4	53.1	50.7	49.5	48.3
52.9	53.1	54.8	56.2	55.7	55.1	56.7	53.4	52.2	50.4	48.5	47.7
54.4	54.7	54.8	56	54.6	53.5	53.5	53.4	51.9	50	48.6	47.9
46.4	46.9	45.3	46.1	48.2	51	50.1	47.2	45.6	42.7	39.2	35.7

								LfFmax			
4.0 kHz	5.0 kHz	6.3 kHz	8.0 kHz	10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz	6.3 Hz	8.0 Hz	10 Hz	12.5 Hz
27.8	25	19.8	15.5	11.5	9.7	9.8	10.7	69.3	64.9	71.1	70.1
24.3	20.6	16.2	13.8	10.2	9.6	9.8	10.7	66.6	62.1	69.9	68.9
22.5	18.9	14.4	13.1	9.7	9.2	9.7	10.7	57.1	60.8	66.8	74.2
22.7	19	14.5	11.4	9.5	9.3	9.7	10.7	58.1	62.4	63.4	69.7
24	19.8	14.9	11.7	9.5	9.2	9.7	10.7	61	61.1	67.3	67.6
28.2	24	23.8	19.9	11.6	9.8	9.9	10.7	66	64.2	67.1	72.1
35.9	32.9	29.6	27	22.3	18.7	15.7	13	64.1	63.7	72.1	72.9
44.2	41.9	37.7	34.8	30.1	25.9	21.3	15.9	73.3	70.8	75.5	80.2
46.3	43.9	40.7	37.2	32.2	26.9	21.7	16.2	73	71.3	74.9	78.5
44.9	40.6	37.3	34.4	30.4	25.8	21.3	15.9	76.8	74.5	79	79
47.8	45.3	42.2	38.8	35.5	29.2	23.8	17.5	75.4	76.6	83.1	90.6
46.6	43.8	40.9	36.6	32.5	27.8	21.9	16	72.3	71.1	78.8	83.1
45.5	44	40.7	37.7	34.2	29.5	33.7	27.7	69.4	72.9	75.5	85
46.9	45.9	43.4	41.9	38.7	33.3	29.1	20.7	70.9	72.4	74.3	77.8
32.5	27.2	23.4	19.8	13.8	10.4	10.1	11	50.6	54.4	58.2	59.1

16 Hz	20 Hz	25 Hz	31.5 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz
78.1	67.5	67.2	64.2	67.5	65.7	65.2	63.5	60.3	60.6	64.9	63.2	61.2	61.4
69.6	69.4	67	62.9	70	69.5	68.2	67.5	63.6	63.8	59.9	63.2	71.4	70.8
73.3	70.2	76.9	66.6	65.8	67.2	67.2	71.5	62.7	64	61.2	64.6	59.8	60.3
66.1	66.4	67.8	76.7	72.1	72.8	67	64	67.2	62.3	68.9	59.4	61.9	71.2
67.8	70	71.9	67.9	75.8	69.7	63.6	65.8	68.9	61.5	63.5	67	59.9	63
72.5	69.6	74.4	68.1	69.6	72.1	69.4	77.6	74.7	64.8	63.4	68.7	68.5	66.5
77.3	77.1	78.8	79.4	79.7	75.6	77.5	72.6	72.3	71	71	69.1	68	73.7
84.9	86.2	85.6	90.9	92.2	93	84	79	76.5	75.8	76.3	75.4	79.8	74.8
78.3	80.4	80.3	81	92.6	82.7	82.9	81.9	83.2	84.8	79.2	77.7	79.5	86.8
79.3	79.8	78.1	83.6	83.3	82	78	82.3	81.7	82.3	89.5	91.7	88	86.3
90.6	84.6	84	88.6	87.9	84.5	84.1	85.8	86.7	82.7	82.2	81.4	77.7	80.7
85.5	86.6	87	85.6	87.7	82.7	84.3	85.3	89.5	88.2	84.5	82.6	85.8	82.7
86.3	83.6	79.2	83	83.6	80.5	75.7	79.8	81	82.1	83.9	81	74.3	77.1
83.3	81.3	84	85.4	89.1	83.3	83.1	84.5	85	79.5	78.6	79.9	74.3	78
53.7	57.7	58.2	55.6	56.7	58.9	56.7	54.1	49.9	48.8	48.4	48.7	48.8	48.1

400 Hz	500 Hz	630 Hz	800 Hz	1.0 kHz	1.25 kHz	1.6 kHz	2.0 kHz	2.5 kHz	3.15 kHz	4.0 kHz	5.0 kHz
61.9	56.1	57.8	65.5	67.5	67.5	68.4	61.7	59.3	59	56.6	54.9
72.6	69.6	69.4	65	63.7	60.6	60.7	55.9	52.8	50.1	47.5	44.2
58.8	57.7	56.3	56.7	55.5	53.2	53	51	50.8	47.6	46.8	43.7
70.1	68.5	58.6	73.5	72.9	63.2	62.7	60.7	60.9	50.7	46.7	42.9
60.6	58.3	56.8	58	55.3	53.8	52	50.3	48	44.8	42.8	38
64.5	61.2	62.3	61.2	59.4	55.9	53.9	53	50.3	48.9	48.9	44.8
68.5	66.5	65.1	61.8	60.6	64.4	65.2	61.5	62.3	63.6	64.3	62.7
76.8	75.9	76.4	77.3	81.6	87.7	88	80.1	80.9	78.6	77.7	73.3
80.6	77.9	81.7	80.7	82.6	83.3	81.6	82.1	84	80.5	78.1	73.2
84.2	82.3	84	82.3	79.6	82.1	86.3	76.9	74.2	74.7	78.7	72.2
81.5	85.2	81.8	83.5	83.2	83.8	82.4	76.1	75.5	79	73.5	73.4
81.2	79.9	79.3	80.1	80.6	81.3	79.2	79.1	77.7	78.5	74.7	71.6
84.1	85.3	81.5	80.3	83.9	82.8	80.3	79.5	76.8	73.4	71.6	76.3
80.6	80.4	77.7	76	79.1	82.4	74.9	77.1	73.1	72.6	78.6	74.2
46.6	47.6	50.1	53.2	51.9	48.9	46.5	43.7	40.6	37.1	34.7	28

						LfE					
6.3 kHz	8.0 kHz	10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz	6.3 Hz	8.0 Hz	10 Hz	12.5 Hz	16 Hz	20 Hz
46.3	42.6	42.5	36.9	18.2	19.5	80.2	79.4	82.7	83.4	84.3	83.7
42.4	47.1	35.2	32	23.2	12.7	78.2	77.8	80	81.4	81.3	82.6
39.1	49.4	31	24.5	17	13	73.7	75.1	77.6	81.2	82.1	82.7
38.3	33.2	31.1	30.4	21	14.2	74.1	75	77.2	79.6	79.6	80.4
34.7	33.8	32.8	23.6	20.1	17.1	75.5	75.7	79.1	81.1	81.4	83.2
46.4	45.6	37.4	33.5	21.8	15.6	77.6	78.8	83.1	85.2	86.2	85.8
61.5	60.1	57.6	53.6	49.5	43.8	80.6	81.4	85.3	87.9	89.4	89
69.8	64.4	57.6	52.8	49.8	46.7	87.2	86.1	87.1	89.3	91.4	93
70	69.4	60.2	52.8	47.5	45.3	86.7	86	86.8	88.9	91.6	92
67.9	63.5	60.2	56	50	42.1	90.8	89.6	89.5	90.3	92.2	91.1
67.7	64.9	60.5	54.2	54	48.7	88.6	88.1	89.2	92	94	92.7
70.1	63.9	59.4	56	48	40.1	89.1	88.2	88.5	90.3	93.3	92.8
75	69.2	66.2	62.5	72.5	66	87.1	86.7	87.5	90.5	92.9	92.3
72.6	73.3	68.1	66.6	63.7	56	84.8	85.2	86.7	88.9	91.1	91
25	22.9	15.1	11.3	10.6	11.4	49	53.8	56.9	56.6	53.1	57.2

25 Hz	31.5 Hz	40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz
83.8	81	82.2	82	81.6	79.4	78.2	79.1	78.5	76.5	76.8	76.4	74.9
81.5	79	80.7	81	80.6	78.6	77.6	77.8	77.1	75.3	76.6	77.1	76.3
81.7	79.8	79.8	80.8	79.4	78.2	76.6	77.2	75.7	75.4	75.2	75.5	74.3
80.4	79.6	79.9	82.9	79.6	77.8	77.1	76.5	76.6	74.8	74.1	75.3	74.5
84.5	81.9	83.3	82.9	80.4	79.1	78.2	77.3	75.9	76.9	76.1	76.6	75.2
87.1	84.9	84.9	86.1	85.7	85.5	82.6	81.4	80.1	80.3	80.4	79.6	78.5
91.7	93.5	98.3	92.3	90.7	88.8	88.4	86.8	85.1	84.4	84.3	85	83.4
104.7	109.9	110.2	100.7	97.7	97.2	96.4	92.8	92.8	90.8	89.8	89	88.5
100.4	100	103.9	97	96	97.3	100.2	92.3	91.9	90.3	89.5	90.1	89
99.2	98.8	96.5	96.3	93.4	92.8	91.4	89.5	90	90	88.3	88.2	88.1
99.7	102.1	101.6	99.5	97.2	97.8	102.5	93.2	93.3	93.2	91.6	90.8	91.2
101.5	102.3	101.6	99	97.7	98.6	102	93.5	93.2	91.5	91.6	92.2	90.3
98.4	102.3	98.5	98.4	96.1	93.8	96.2	90	90.2	88.8	88.4	88.7	90.4
97.5	97.7	99.8	97.6	94.7	97.6	100.9	90	92.7	92.4	90	90.3	90.3
58	55.4	56.6	59.3	56.2	53.8	48.8	49.1	48.2	49	49.1	49.6	48

500 Hz	630 Hz	800 Hz	1.0 kHz	1.25 kHz	1.6 kHz	2.0 kHz	2.5 kHz	3.15 kHz	4.0 kHz	5.0 kHz	6.3 kHz
75.6	76.4	78.2	78.3	76.6	76.2	72.3	69	67.6	63.3	60.5	55.3
76.4	76.4	76.7	76.3	74.5	72.6	69.7	66.1	63.3	59.9	56.2	51.8
75	75.1	75.6	74.8	72.5	70.1	67.2	63.7	60.7	58	54.5	50
74.7	74.6	76.5	75.9	73.4	71.4	68.7	65.1	61.6	58.3	54.5	50
75.5	76	77.7	77.4	75.7	74	71.1	66.9	63.2	59.6	55.4	50.5
78.8	79.7	81.5	81.1	79.3	77.6	74.9	70.9	67.4	63.7	59.6	59.3
83.3	84.2	85.7	85.2	83.4	81.6	79.6	76.6	73.6	71.4	68.5	65.1
88.9	88.7	88.4	88.7	94	93.2	84.7	83	80.7	79.8	77.5	73.3
88.2	87.9	88.2	88.1	86.8	88.7	85	84.4	83.6	81.9	79.4	76.3
88.2	88	88	87.2	88.2	90	83.6	81.7	80.4	80.5	76.2	72.8
92.2	91.1	90.2	89.9	89.7	88	86.1	85.3	85.1	83.3	80.9	77.8
91	89.8	89.5	90.1	90	88.6	86.3	85	83.8	82.1	79.4	76.4
91.8	91.3	90.6	92.2	89	87.8	86	84	83.3	81.1	79.6	76.2
91.6	90.2	89.1	89.1	89	87.5	85.5	84.2	83.5	82.5	81.5	79
48.8	50.8	53.7	52.7	49.9	48.2	45.3	41.9	38.3	35.1	29.9	26.1

LfF,Perc2											
8.0 kHz	10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz	6.3 Hz	8.0 Hz	10 Hz	12.5 Hz	16 Hz	20 Hz	25 Hz
51	47.1	45.3	45.4	46.3	55.4	54	58	58.2	57.9	57.3	57.4
49.3	45.7	45.2	45.4	46.3	53.3	52.7	54.9	57.4	55.6	55.5	54.2
48.7	45.2	44.8	45.3	46.3	47.6	49	52.3	56.8	56.8	56.1	55.3
47	45.1	44.8	45.3	46.3	48.9	48.8	52.1	55.2	54.2	54.2	53.1
47.3	45.1	44.7	45.3	46.2	50	49.6	54.5	56.8	55.6	56.4	57.4
55.5	47.1	45.4	45.4	46.2	52.3	53	58.5	59.8	60.2	59.4	61
62.5	57.9	54.2	51.3	48.6	55	54.6	59	61.5	62.5	61.9	64.8
70.4	65.6	61.4	56.9	51.5	62.2	60.3	60.8	62.6	64.7	65	77.1
72.7	67.8	62.5	57.3	51.8	61.8	60.4	60.4	61.8	64.4	63.7	72.3
70	66	61.4	56.9	51.5	65.6	64	63.3	63.3	64.7	63.6	72.1
74.3	71	64.8	59.3	53	62.8	61.8	62.2	64.3	66.9	65.8	73.9
72.2	68.1	63.3	57.5	51.5	63.7	62.6	61.6	62.8	65	65.2	74.9
73.2	69.7	65	69.2	63.3	62.2	61.3	61.3	63.8	65.9	64.8	72.5
77.4	74.3	68.8	64.6	56.2	59.9	59.8	61.1	62.8	65.1	63.9	71
22.4	16.5	13.1	12.8	13.7	-	-	-	-	-	-	-

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

LfF,Perc4											
10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz	6.3 Hz	8.0 Hz	10 Hz	12.5 Hz	16 Hz	20 Hz	25 Hz	31.5 Hz
13.1	10.1	10.1	11	47.7	47	49.4	50.5	50.9	50.4	51.4	48.6
11.2	10	10	11	45.3	45	46.3	47.2	48	48.8	48.6	46.6
10.6	10	10	11	41.3	42.3	44.1	46.9	48.5	48.8	47.9	46.6
10.6	10	10	11	41.4	42.3	43.8	45.5	46.4	47.1	47.4	45.8
11.3	10	10	10.9	42.9	43.2	45.2	47.3	48.5	49.6	52.2	49.4
15	10.9	10.3	10.9	44.3	46	50	52	53.5	52.8	54.1	52.4
22.6	17.3	13.6	11.3	48.2	49.1	52.6	55.3	56.7	56.3	58.9	58.7
35	30.7	26	19.3	55.4	54.1	54.4	56.1	57.3	59.3	74.4	80.8
37.6	32.2	26.3	19.4	54.5	53.6	54.4	56.1	58.7	58.9	69	68.6
33	28.5	23.7	17.1	58.8	57.6	57.2	57.7	59.5	58.4	68.7	66.9
39.3	33.9	28.5	21.4	56.6	55.7	56.1	57.6	59.4	58.5	68.7	67.1
38.4	33.4	27.6	20.7	57.3	56.1	56.1	57.3	60.2	59.3	70.1	70.6
37.1	32.7	27.5	21	55	54.3	54.8	56.1	58.6	58.8	67	71.9
46.6	40.2	34.8	24.4	52.5	52.4	53.8	55.9	57.9	57.4	66.4	66.6
-	-	-	-	49	53.8	56.4	58	53.2	56.1	57.6	54.2

40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz
49	49	48.7	46	45	45.9	44.7	42.8	43.3	42.9	42	42.7	43.8
47.1	47.3	46.6	45.2	44.1	44.3	43.2	41.7	42.1	42.1	40.9	41.7	42.2
45.8	46.8	45.5	44.1	43	43.9	41.8	41.5	41.7	41.7	41.1	41.8	41.6
46.2	48	45.8	43.4	42.9	42.6	41.1	40.9	40.3	40.6	39.9	40.9	40.9
48.9	49.5	47.4	45.5	44.4	44.2	41.9	42.8	42.8	43.1	42.2	42.5	43.2
52.3	53.6	52.9	50.3	48.3	48.4	46.8	46.5	46.5	46.3	45.4	45.9	47.2
59	59.8	58	55.6	55.3	53.2	51.7	50.3	50.2	50.6	49.3	49.3	50.7
79.6	67.8	66.4	65.5	65.5	61.6	62.3	59.7	58.8	57.7	56.6	56.9	55.8
68.7	63.6	61.4	63.9	65.4	57.6	58.2	57.7	55.6	54.9	55.1	55.6	54.7
61	62.5	60.3	60.2	58.3	55.5	54.9	53.6	53.2	53.1	53.1	53.1	53.1
68	66.6	63	65.5	71.1	58.8	61.1	61.1	57.3	56.9	56.7	58.2	57.3
67.1	65.2	64.2	66.3	71	59.5	59.1	58.6	57.9	57.4	56.8	58.1	56.6
65.2	65.6	64.3	60.4	61.8	56.6	56.5	56.5	56	55.8	56.8	58.3	58.6
63.8	63.4	61.7	63.6	64.5	57.3	58.7	58.2	56.3	55.4	54.8	56.4	55.3
56	57.8	56	53	47.4	48.1	47.2	47.6	48.4	47.4	46	47	49.6

800 Hz	1.0 kHz	1.25 kHz	1.6 kHz	2.0 kHz	2.5 kHz	3.15 kHz	4.0 kHz	5.0 kHz	6.3 kHz	8.0 kHz
45.6	45.8	44.2	42.8	40.2	36.5	33.4	29.8	25.6	20.3	15.6
43.6	43.8	42.3	40.7	38	34	30.5	26.7	22.5	17.3	13.2
42.1	41.7	40	38.2	35.6	31.7	27.9	24.2	19.8	14.9	11.4
42.5	42.4	40.8	39.3	36.5	32.4	28.6	24.7	20.1	15.2	11.5
45.2	45.3	43.8	42.3	39.6	35.5	31.8	28.1	23.4	18	13.8
49.3	49	47.1	45.6	43	39.3	35.8	32.2	27.9	23.1	18.7
52.3	51.9	50.1	48.3	46	42.5	39.4	37	34.8	29.6	26.2
55.4	56.3	55.8	54.5	51.9	50.3	47.8	46.8	45.3	40.2	37.6
54.2	54	52.9	52.3	50.8	49.7	49	47.4	45.1	41.6	38.3
53	52.6	51.2	50.4	48.7	46.6	44.5	43.3	40.4	37	33.6
56.1	55.9	55.4	54.3	52.4	51.7	50.7	49.3	46.5	43.3	39.8
56	56.6	55.6	54.8	52.9	51.3	50.5	48.9	46.1	43	39.2
57	56.6	54.6	53.4	51.3	49.5	50.3	46.8	44	40.5	37.6
54.6	54.2	53.3	53.8	52.7	51.9	52.2	50.9	49.2	46.3	42.8
52.6	51.2	48.4	46.2	43.1	40.2	36.5	33.8	27.9	24.5	21.8

LfF,Perc5											
10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz	6.3 Hz	8.0 Hz	10 Hz	12.5 Hz	16 Hz	20 Hz	25 Hz	31.5 Hz
11.2	10	10	10.9	38.6	39.7	41.9	43.2	44.6	46	45.3	42.7
10.1	10	10	10.9	37.3	38	39.1	40.6	42.3	45.1	43.6	40.9
10	10	10	10.9	34.8	36.4	37.9	40.1	42.5	45	43.2	40.7
10	10	10	10.9	34.6	36.1	37.8	38.6	40.6	42.5	42.1	40
10.1	10	10	10.9	36.1	37.2	38.7	40.2	42.1	45.3	45.8	42
12.9	10	10	10.9	37.8	39.9	43.1	45.4	47.4	47.6	48.4	46.6
19.3	14.8	12	11	41.6	43.1	46.6	49.4	51.1	51	53.4	52.7
32	27.6	22.5	16.1	45.7	46.2	48.2	50.7	52	54.6	61.3	60.6
34.3	29	23.2	16.8	45.4	46.2	48	50.7	53.6	54.3	61.8	60.7
29.3	24.7	19.7	14.7	50.1	49.7	50.5	52.2	54.6	53.2	58	56.6
35.8	30.7	25.7	19	48.6	48.7	49.8	52.1	54.6	53.2	57.3	57.5
35.3	30.2	24.4	18	48.9	48.9	49.8	51.8	55.1	54.3	60.5	59.2
34.1	29.3	24	17.6	46.6	47	48.3	50.3	52.8	53.5	58.7	57.7
39.5	33.6	28.7	20.9	44.1	45.4	47.3	49.7	51.7	52.3	56.7	56.4
14.8	10.9	10.5	11.2	44.3	50.2	53.2	52.4	49.4	54.6	54.5	52.3

40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz
44.1	42.7	42.4	41.6	40.8	41.7	42	39.4	39.2	38.4	37.1	37.8	38.2
42.9	41.5	40.5	40.4	39.7	40.2	40.2	37.9	37.6	37.1	36.3	37.3	37
41.7	42.4	39.7	40.1	39	39.8	38.2	37.8	37	37	36.8	37.9	37.9
40.8	44.3	39.9	38.9	38.4	38.2	37.3	36.9	36.6	36.5	35.5	36.5	36.6
43.4	44.3	41.1	41	39.8	39.8	38.1	37.8	37.9	38	37.3	38.1	38.2
46.2	46.9	46.4	45.1	43.8	43.6	42.2	41.9	42.2	42.1	41.3	41.8	42.3
52.3	53.5	52.6	50.8	49.3	48.7	47	46.8	47.2	47.3	46.1	46.4	47.5
61.2	60	57.6	57.9	55.5	53.4	51.6	50.4	50.1	49.8	48.5	48.7	49.7
57.6	57.6	55.9	55	53	51.8	50.6	50	49.8	49.8	48.7	48.8	49.1
55	56	54.9	53.3	51.6	50.7	49.7	49.4	49.5	49.7	48.7	48.8	49.2
55.4	56.5	55.5	54.9	53.1	52.2	51.1	50.1	50.1	49.8	49.4	49.7	49.7
56.7	57.4	55.9	55.7	52.9	51.2	50.2	49.4	50.5	49.4	48.9	49.1	49.2
56	57.7	56.2	53.4	52.7	50.7	49.2	48.5	49.3	49.5	48.8	49.2	49.5
54.5	56.5	54.5	51.4	49.2	48.3	47.1	46.3	47.7	47.2	46.1	46.5	46.8
53.6	56.6	53	51.1	46.1	46.4	45.3	46	45.8	46.9	45.3	46.3	48.1

800 Hz	1.0 kHz	1.25 kHz	1.6 kHz	2.0 kHz	2.5 kHz	3.15 kHz	4.0 kHz	5.0 kHz	6.3 kHz	8.0 kHz
39.7	39.5	37.6	35.9	32.7	28.5	25.6	22	18.2	13.8	10.9
37.8	37.3	34.9	32.4	28.8	24.7	23.1	19.7	16.7	12.8	10.4
38.4	37	33.6	29.3	24.2	19.3	16.6	14.6	11.2	10	9.9
37.6	36.4	33.7	30.5	25.9	20.6	17.1	13.7	10.3	10	9.9
39.7	39.2	37.3	35.1	31.2	25.7	21.3	17.6	13.7	10.4	10
44.1	43.9	42.1	40.4	37.2	32.4	28.1	24	19.1	14.4	11.2
49.4	48.9	46.9	45.1	42.2	38.1	34.4	30.6	26.1	21.2	16.9
50.9	50.7	49.2	47.7	45.4	42.6	39.8	37.9	35.8	31	27.2
50.3	49.6	47.7	46.4	44.2	40.9	38	35.5	32.3	28.4	24.9
50.2	49.5	47.5	45.9	43.3	39.8	36.8	34.1	30.7	26.8	23
50.3	49.7	48.1	47	44.8	42.2	39.9	38.1	35.1	31.7	28.6
49.6	49.1	47.8	46.9	44.8	41.8	39.4	37.2	34.3	30.6	27.2
49.6	49.7	48.7	47.1	44.9	42.2	40.4	38.5	34.6	31.2	28.4
48.3	48.3	46.9	45.7	43.1	39.9	37.3	34.9	32.3	28.1	25.2
51.1	49.8	47	45.6	42.5	39	35.4	32.1	27.1	23	18.8

LfF,Perc6											
10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz	6.3 Hz	8.0 Hz	10 Hz	12.5 Hz	16 Hz	20 Hz	25 Hz	31.5 Hz
9.9	9.9	9.9	10.7	31.3	33.2	35.5	37.1	39.1	42.5	40.5	37.8
9.9	9.9	9.9	10.7	30.2	31.7	33	35.2	37.1	42.1	39.6	36.2
9.9	9.9	9.9	10.7	28.1	30.4	32.1	34.4	37	42	39.7	36.8
9.9	9.9	9.9	10.7	28.1	30	32.1	33	35.3	35.9	37.8	35.6
9.9	9.9	9.9	10.7	29.3	31.1	32.9	34.5	36.7	42.2	40.5	36.3
10	9.9	9.9	10.7	31.3	33.7	36.7	39.5	41.7	43.4	43.2	41.1
11.1	10	9.9	10.7	34.8	37	40.6	43.9	45.8	46.4	48.7	47.7
21.8	17.2	13.5	11.3	37.4	39.1	42.3	45.3	47	49.4	54.7	54.2
20.4	16	12.7	11.3	37.8	39.4	42.1	45.4	48.5	50	56.4	55.2
17.8	13.6	11.2	11.1	41.6	42.6	44.2	46.7	49.6	48.6	52.5	51.8
24	19.4	15.1	12.2	40.7	41.9	43.8	46.7	49.6	48.7	51.2	51.1
23.2	18.5	14.4	11.9	40.7	42.2	43.8	46.4	49.9	49.9	53.1	52.4
24.5	20	14.8	12	38.7	40.2	42.3	44.7	47.2	48.7	52.4	51.1
21.1	15.9	12.7	11.5	36.6	38.9	41.3	44.1	46	47.8	51.1	50.1
14	10.3	10.1	11	38.8	44.4	42.8	48	46.2	51	52	49.9

40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz
41	38.9	38.2	38.2	37.6	38.8	39.8	36.6	36.2	35.2	33.8	34.4	34.8
40.3	38.1	36.8	37.4	36.7	37.4	37.1	35.3	34.7	34.1	33.3	34.1	34.3
39	39.1	36.1	37.3	36.2	36.5	35.4	35	34.2	34.3	33.7	34.6	34.9
34.8	41	36.2	35.5	35.5	35.2	34.4	34.1	33.9	33.8	32.7	33.6	34.1
40.4	40.8	37.3	37.8	36.9	36.3	35.4	34.9	34.8	34.7	33.8	34.8	35.2
41.9	42.2	41.4	41.5	40.3	40.1	38.7	38.3	38.3	38	37.3	37.8	38.4
47.6	48.4	48.2	47	45.7	45.4	43.9	43.9	44.5	44.3	43.2	43.6	44.5
52.8	53.5	52.4	51	49.4	48.7	47	46.3	46.7	46.6	45.5	45.7	46.6
53.2	53.1	51.7	50.5	49.1	48.6	47.5	47.1	47.3	47.4	46	46.3	46.5
50.7	51.4	51	49.6	48.4	47.9	47.2	47.2	47.3	47.5	46.3	46.7	47.1
50.6	51.1	50.4	48.9	48	47.7	46.7	46.2	46.5	46.2	44.9	45.2	45.3
51.9	52	50.5	49.1	48.1	47	46.7	45.8	47.7	46	44.2	44.4	44.7
50.3	51.8	49.4	47.5	46.5	45.5	44.7	43.8	44.5	44.3	43.2	43.8	43.9
49.2	50.6	48.2	46.1	44.5	43.6	42.8	42.4	43.3	43.3	42.3	42.7	42.5
51.6	53	51.1	49.6	44.4	45.2	44.7	45	45.1	45.2	44.3	44.8	46.6

800 Hz	1.0 kHz	1.25 kHz	1.6 kHz	2.0 kHz	2.5 kHz	3.15 kHz	4.0 kHz	5.0 kHz	6.3 kHz	8.0 kHz
35.9	35.1	32.4	29.8	26.4	23.4	22.6	19.3	16.2	12.4	9.9
35	33.9	30.8	27.2	22.9	17.5	13.5	10.7	9.9	9.9	9.9
35.6	34.1	30.6	25.9	19.5	13.1	10	9.9	9.8	9.8	9.8
34.7	33.1	29.8	25.4	19.4	14.2	10.3	9.9	9.8	9.8	9.8
36.5	35.5	32.8	29.3	24	17.1	12	9.9	9.9	9.8	9.8
39.7	39.2	37.2	35.1	30.8	24.6	19.8	15.9	11.9	9.9	9.9
46.4	45.7	43.3	40.9	37.2	32.2	28	24	19.3	15.1	11.5
48.3	47.9	45.7	43.8	41.1	37.1	33.3	29.7	25.2	20.1	15.7
47.7	46.9	44.7	42.8	40.1	36.3	33	29.7	25.6	20.8	16.6
48.3	47.3	44.9	42.6	39.6	35.4	31.9	28.6	24.4	19.6	15.6
46.3	45.7	43.9	42.2	39.5	36	33	30	26.1	22.1	18.7
45.4	45.2	43.7	42.1	39.7	36.2	33.2	30.3	26.8	22.8	19.2
45.2	45.1	43.9	42.5	39.9	36.3	33.4	30.3	26.8	22.4	18.5
43.9	44	42.9	41.5	38.8	35.1	31.8	28.7	25	20.5	16.6
49.8	49	46.4	45	42.1	38.4	34.7	31.6	26.6	21.8	17.2

LfF,Perc7											
10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz	6.3 Hz	8.0 Hz	10 Hz	12.5 Hz	16 Hz	20 Hz	25 Hz	31.5 Hz
9.8	9.8	9.8	10.5	29.2	31.4	33.8	35.5	37.6	41.5	39.3	36.5
9.8	9.8	9.8	10.5	28.2	29.9	31.4	33.6	35.6	41.2	38.6	34.9
9.8	9.8	9.8	10.5	26.2	28.5	30.4	32.8	35.5	41.1	38.8	35.6
9.8	9.8	9.8	10.5	26.1	28.3	30.4	31.5	33.8	34.3	36.6	34.3
9.8	9.8	9.8	10.5	27.5	29.3	31.2	33	35.2	41.2	39.2	34.9
9.8	9.8	9.8	10.5	29.4	31.9	35	37.7	40.1	42.3	41.8	39.7
9.9	9.8	9.8	10.5	32.8	35.2	38.9	42.3	44.3	45.2	47.4	46.4
11	9.9	9.9	10.6	35.3	37.2	40.5	43.7	45.6	48.1	53	52.7
12.4	10.2	10.1	10.8	35.7	37.5	40.4	43.8	47.1	48.8	55	53.9
11.3	9.9	9.9	10.7	39.3	40.6	42.4	45.1	48.2	47.3	51.1	50.6
13.7	10.8	10.3	11	38.4	40	42.1	45.1	48.2	47.4	49.8	49.7
15	11.3	10.5	11	38.4	40.2	42	44.9	48.5	48.7	51.6	51.2
14.1	10.9	10.3	11	36.6	38.1	40.6	43.2	45.7	47.3	50.8	49.8
12.4	10.1	10.1	10.9	34.5	37.1	39.6	42.5	44.5	46.5	49.7	48.6
12.6	10	10	10.8	37.6	44	41.4	46.6	45	50.4	51.6	49.6

40 Hz	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz
40.2	38	37.1	37.3	36.8	38.1	39.2	36	35.4	34.4	33.1	33.7	34.2
39.7	37.3	35.8	36.6	36	36.7	36.2	34.6	34	33.4	32.6	33.4	33.7
38.2	38.2	35.3	36.6	35.5	35.7	34.7	34.2	33.5	33.6	33	33.8	34.1
33.5	40.1	35.3	34.6	34.7	34.5	33.6	33.4	33.2	33.2	32.1	32.9	33.4
39.6	39.9	36.3	37	36.2	35.5	34.6	34.2	34.1	33.9	33	34.1	34.5
40.8	41.1	40.2	40.6	39.3	39.2	37.8	37.5	37.4	37.1	36.3	36.9	37.5
46.4	47.3	47.1	46	44.8	44.6	43.1	43.2	43.7	43.4	42.3	42.8	43.5
51.4	52.3	51.3	49.9	48.5	47.8	46.2	45.7	46.1	45.9	44.8	45.1	46
52.1	52	50.7	49.6	48.3	47.8	46.7	46.5	46.7	46.8	45.4	45.7	45.9
49.6	50.3	50	48.8	47.7	47.2	46.5	46.6	46.8	47	45.8	46.2	46.6
49.4	49.8	49.2	47.8	47.1	46.8	46	45.5	45.8	45.6	44.2	44.4	44.4
50.8	50.6	49.2	48.1	47.2	46.1	46	45.1	47	45.3	43.3	43.4	43.7
48.9	50.4	47.9	46.2	45.3	44.6	43.9	42.9	43.6	43.4	42.2	42.9	42.7
47.9	49.3	46.8	45	43.4	42.5	41.9	41.4	42.3	42.4	41.4	41.8	41.5
50	52.8	50.8	48.6	43.4	44.8	44.2	44.9	45	45.1	44.2	44.6	46

800 Hz	1.0 kHz	1.25 kHz	1.6 kHz	2.0 kHz	2.5 kHz	3.15 kHz	4.0 kHz	5.0 kHz	6.3 kHz	8.0 kHz
35	34.1	31.3	28.5	25.5	22.8	22.3	18.9	15.9	12.2	9.9
34.4	33.2	30	26.1	20.8	14.5	11.1	9.9	9.9	9.8	9.8
34.9	33.2	29.8	25.1	18.6	11.8	9.9	9.8	9.8	9.8	9.8
34.1	32.3	28.9	24.3	18.3	12.7	9.9	9.8	9.8	9.8	9.8
35.8	34.7	31.8	28.1	22.6	15.3	10.5	9.9	9.8	9.8	9.8
38.6	38	36	33.3	28.9	22.7	17.7	13.7	10.2	9.9	9.8
45.4	44.6	42.1	39.5	35.4	29.8	25.7	21.9	17.1	13.2	10.4
47.7	47.3	44.9	42.9	40	35.9	32.1	28.3	23.6	18.4	13.9
47	46.2	43.9	41.7	39	35.1	31.8	28.6	24.4	19.5	15.4
47.8	46.7	44.2	41.6	38.5	34.3	30.7	27.3	23.1	18.4	14.4
45.3	44.8	42.8	41	38.3	34.6	31.6	28.5	24.5	20.4	17.1
44.2	43.9	42.4	40.9	38.5	35	31.9	28.8	25.2	21.1	17.6
44	44	42.7	41.3	38.7	35.1	32.2	29	25.3	20.7	16.7
42.8	42.9	41.9	40.4	37.7	33.8	30.5	27.4	23.7	19.2	15.4
48.8	48.2	45.8	44.8	41.8	38.3	34.6	31.2	26.5	21.4	17

10.0 kHz	12.5 kHz	16.0 kHz	20.0 kHz
9.8	9.8	9.8	10.5
9.8	9.8	9.8	10.5
9.8	9.8	9.8	10.5
9.8	9.8	9.8	10.4
9.8	9.8	9.8	10.4
9.8	9.8	9.8	10.4
9.8	9.8	9.8	10.4
10.1	9.9	9.8	10.5
11.6	10	10	10.7
10.7	9.9	9.9	10.7
12.5	10.3	10.1	10.9
13.6	10.7	10.3	11
12.5	10.2	10.2	10.9
11.6	9.9	10	10.8
12.4	9.9	10	10.8